3. Create a class Book which contains four members: name, author, price, num_pages. Include a constructor to set the values for the members. Include methods to set and get the details of the objects. Include a toString( ) method that could display the complete details of the book. Develop a Java program to create n book objects.

```
import java.util.Scanner;
class Book
{
        String name;
        String author;
        double price;
        int numpages;

        Book(String name, String author, double price, int numpages)
        {
                this.name=name;
                this.author=author;
                this.price=price;
                this.numpages=numpages;
        }

        void setDetails(String name, String author, double price, int numPages)
        {
                this.name=name;
                this.author=author;
                this.price=price;
                this.numpages=numPages;
        }

        void displayDetails()
        {
                System.out.println("BookName:"+name);
                System.out.println("BookAuthor:"+author);
                System.out.println("BookPrice:"+price);
                System.out.println("BookPages:"+numpages);
        }

        public String toString()
        {
                return (name+ "," +author+","+price+"numpages");
        }
}
```

```
class BookDemo
{
        public static void main(String[] args)
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter no of books:");
                int n= sc.nextInt();
                sc.nextLine();
                Book[] b=new Book[n];
                for(int i =0 ; i<n ;i++)
                {
                        System.out.println("Enter name:");
                        String na = sc.nextLine();
                        System.out.println("Enter author:");
                        String a = sc.nextLine();
                        System.out.println("Enter price:");
                        int p = sc.nextInt();
                        System.out.println("Enter no of pages:");
                        int page = sc.nextInt();
                        sc.nextLine();

                        b[i]=new Book(na,a,p,page);
                        b[i].displayDetails();
                }
                System.out.println("All Book Details");
                for (int i=0;i<n;i++)
                {
                        System.out.println(b[i]);
                }
        }
}
```

```
C:\Users\sammj\OneDrive\Desktop\JAVA LAB\Lab 3>java BookDemo
Enter no of books:
2
Enter name:
The Da Vinci Code
Enter author:
Dan Brown
Enter price:
350
Enter no of pages:
400
BookName:The Da Vinci Code
BookAuthor:Dan Brown
BookPrice:350.0
BookPages:400
Enter name:
The Kite Runner
Enter author:
KhaledHousseni
Enter price:
385
Enter no of pages:
390
BookName:The Kite Runner
BookAuthor:KhaledHousseni
BookPrice:385.0
BookPages:390
All Book Details
The Da Vinci Code,Dan Brown,350.0numpages
The Kite Runner,KhaledHousseni,385.0numpages
```

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Q Create a class Book which contains four members: name, author, price, num_pages. Include a constructor to set the values for the members. Include methods to set and get details of the objects. Include a toString() method that displays the complete details. Develop a java program to create n book objects

```
class book {
    String name;
    String author;
    double price;
    int numpages
    public book (String name, String author, double price,
                 int numpages)
    {
        this.name = name;
        this.author = author;
        this.price = price;
        this.numPages = numPages;
    }
    ~~public~~
    String getName()
    {
        return ~~Name~~ name;
    }
    String getAuthor()
    {
        return author;
    }
    int getnumpages(){
    return numpage;
    double getPrice(){
    return getPrice;
    }
```

```
void setDetails (String name, String author,
                 double price, int numPages) {
{
  this.name = name
  this.author = author
  this.price = price
  this.numPages = numPages
}
void displayDetails() {
  System.out.println("Book name: " + name);
                     ("Book author: " + author);
                     ("Book Price: " + price)
                     ("Book Pages: " + numPages);
public String toString {
        return (name + ", " + author + ", " + price + "numPages);
}
class BookDemo
{
  public static void main (String[] xx)
  { Scanner sc = new Scanner(System.in);
    int n = 4;
    Book[] b = new Book[n];
    b[0] = new Book ("The DA VINCI CODE", "DAN BROWN",
                     1500, 350);
    b[1] = new Book ("Roots", "Alex Haley", 1650, 420);
    b[2] = new Book ("The kite runner", "Khaled Hosseini",
                     (585, 371);
    b[3] = new
```

```
for sopln("Enter no of books: ");
    n=sc.nextInt();
    for(int i=0; i<n; i++)
    {
      String
      System.out.print("Enter name: ")
      String n = sc.next();
      System.out.print("Enter author: ")
      String a = sc.next();
      int p
      System.out.print("Enter price: ")
      int p = sc.nextInt();
      System.out.print("Enter no of pages: ");
      int page = sc.nextInt();
      }
      b[i] = new Book(n, a, p, page);
      b[i].displayDetails();
    }
    for(int i=0; i<n; i++)
    { System.out.println("All book details:
      b[i] displayDetails(); System.out.println(b[i]);
    }
    }
    }
```

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Output:

```
Enter no of books : 2
Enter name : The DAVINCI CODE
Enter Author : DAN BROWN
Enter price : 350
Enter pages : 1500
Enter name : The Kite Runner
Enter author : Khaled Hosseini
Enter price : 385
Enter no of pages : 371
```

All book details :

```
The DA VINCI CODE, DAN BROWN, 350, 1500
The kite Runner, Khaled Hosseini, 385, 371
```